Automated Testing of Positioning and Navigation for Low-Altitude Economy

Pioneer in Domestic Alternatives

Project Presenter: Lashare Chen

Guangzhou Tesight Technology Co.,LTD

Why Tesight:

1. Automated testing with full solutions.
2. Cutting costs by 60% vs. competitors.
3. First in automated Beidou GNSS testing, aligned with national strategy.
4. Long-term partners: top testing firms, automakers, and low-altitude economy leaders.
5. High talent density, agile team.
6. Strong market & commercialization skills.

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01 Team Introduction

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01 Company Profile

About Tesight

A leading supplier of electronic testing and measurement solutions in the high-precision and cutting-edge field
Make all complex tests simpler and more efficient!

Team

- ✓ Business accumulation with over 15 years of experience
- ✓ A professional marketing team with over 9 years of experience
- ✓ 70% of the team has a 985/211 education, and 100% of the technical expertise is related to their respective majors

Over 10 years of experience accumulation

Technology

- ✓ 10+ intellectual property rights, with an additional 5 being actively deployed
- ✓ Deliver more than 150 project orders
- ✓ Serve customers such as Huawei, Desai SV, Saibao, NIO, etc+

280+ delivered orders

Market

- ✓ Established for over a year, with revenue exceeding 18 million RMB
- ✓ Contacted 3000+ customers
- ✓ 213+customers have been delivered
- ✓ Our services have reached 10+industry

Revenue exceeding 23 million RMB the first year

Ecology

- ✓ Established on March 28, 2023, with a layout in 6 major cities
- ✓ 15+ overseas high-precision and cutting-edge technology partners
- ✓ 10+ industry media/associations, 25+ technical live broadcasts/seminars, with 50+ k viewers

Layout of 7 major cities

Tesight's Qualification and Honors

10 IPs filed, 5 in progress

3rd Prize in Guangzhou Innovation and Entrepreneurship Competition

3rd Prize in Guangzhou Women's Innovation Competition

JUMPSTARTER Top 100 Startups

3 startup awards

Tesight's Industry Recognition

Thematic Tech Day: Low-Altitude & Intelligent Mobility · HiL and GNSS Positioning and Navigation

Tech Day: Autonomous Driving

Satellite Navigation Training Course

High-Speed Signal Acquisition Solution Thematic Report

GNSS Positioning and Navigation Keynote Speech

Satellite Communication Testing Keynote Speech

GNSS Testing Industry Theoretical Knowledge Training

GNSS Simulation Engine Training

Automotive Electronics Simulation and Testing Online Seminar

hosted/organized 10+ workshops, with 500+ participants

attended 20+ industry events at the invitation and delivered speeches

initiated 20+ Trainings/Seminars/Live Broadcasts, with 60 k+ participants

Core Team

Chairman: Jay Chu

⋆ Zhejiang university internal combustion power engineering major

⋆ Worked in the Second Automobile Factory (Dongfeng Motor).

⋆ He has **cultivated the automobile industry for more than 40 years and has 30+ years of entrepreneurial experience**

⋆ He has written many monographs and more than 30 patents on inventions.

"Insist on scientific and technological innovation as the first development force of enterprises"

Co-founder: Lashare Chen

⋆ Graduated from South China University of Technology

⋆ MBA + Automation Major

⋆ 14 years of industry experience, 350+ technical solutions

⋆ Awarded Industry Innovation Person of the Year and other honors (China Automation + Digital Industry)

"Providing independent innovative Chinese solutions for industry technical challenges"

CEO: Sophia Wang

⋆ Shanghai University Electrical Engineering and Automation Specialty

⋆ 9+ years test and measurement industry experience, 5 years+management experience.

⋆ 7+ years sales experience, with accumulated achievements **exceeding 100 million.**

⋆ Serving more than 800 customers

⋆ Member of China Automotive Engineering Society

"A pioneering and passionate leader"

CTO: Akio He

⋆ Xidian university Communication Engineering Major

⋆ 7+ years industry experience, proficient in GNSS HIL testing.

⋆ He has been invited to participate in industry forums and speeches for **more than 10 times.**

⋆ Provide 50+ technical solutions for Harbin Institute of Technology, Saibao and CRRC

CMO: Amy Liang

⋆ Beihang University majored in management science and engineering.

⋆ 8+ years ToB marketing management experience.

⋆ Once set up the marketing department from 0 to 1, and led a team of more than 30 people to contribute **more than 10,000 sales opportunities and 20% sales orders to the company every year.**

Stable
Working partner

70%
Technology proportion

70%
Project 985 or 211/ studing abroad

"An innovative, efficient, professional and passionate talent team can provide customers with long-term quality services"

Expert Advisors

Dr.Laszlo Virag

Commsignia CTO
(Well-known expert in the field of Internet of Vehicles)

- Over 15 years of experience in the field of Vehicle-to-Everything (V2X) communication
- Former expert at the Institute for Computer Science and Control, Hungarian Academy of Sciences, engaged in vehicle network communication protocol research
- Founded Commsignia in 2012 (one of the pioneering companies in V2X technology research and application)

Ma Tao

School of Telecommunications Engineering, Xidian University
Associate Professor / Ductoral Tutor

- Ph.D. in Electrical & Computer Engineering, University of Nebraska Lincoln
- M.S. in Communication & Information Systems, Xi'an Jiaotong University
- Led a National 863 Program key subproject: Testing & Simulation of Next-Gen XX-Converged Broadband Networks

Jürgen Seybold

TeleOrbit GmbH CTO
(Renowned expert in the GNSS field)

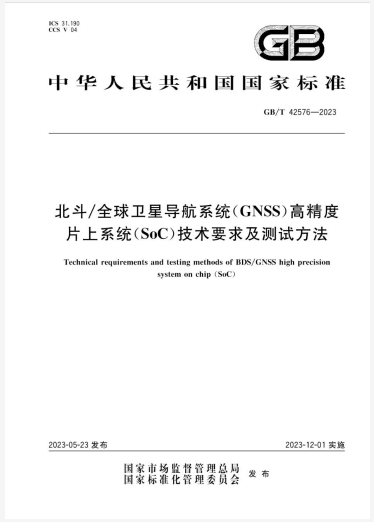
- Master of Engineering, 25 yrs of experience in the GNSS technology field
- Focused on efficient GNSS technology and mobile positioning solutions
- Published more than 10 monographs, received over 7 professional awards
- TeleOrbit GmbH CTO, with successful practical experience in technological innovation, solution application, and commercialization

Frontier Insight Innovation

"Strong technical strength
—a global international expert advisory team covering industry, academia, and research"

02 Market Analysis

GNSS satellite positioning and navigation testing reach national and special standards


ICS 33.180
CCS Y 54

GB

中华人民共和国国家标准

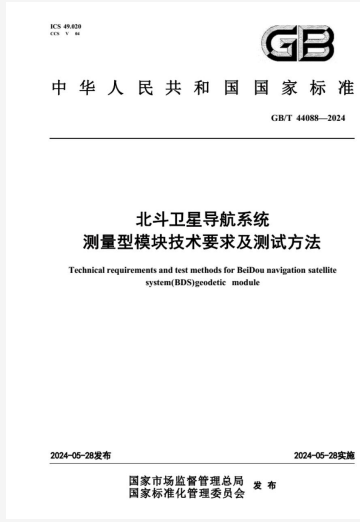
GB/T 42576—2023

北斗/全球卫星导航系统(GNSS)高精度
片上系统(SoC)技术要求及测试方法

Technical requirements and testing methods of BDS/GNSS high precision system on chip (SoC)

2023-05-23 发布　　2023-12-01 实施

国家市场监督管理总局
国家标准化管理委员会　发布


ICS 49.020
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中华人民共和国国家标准

GB/T 44088—2024

北斗卫星导航系统
测量型模块技术要求及测试方法

Technical requirements and test methods for BeiDou navigation satellite system(BDS)geodetic module

2024-05-28发布　　2024-05-28实施

国家市场监督管理总局
国家标准化管理委员会　发布


ICS 03.220.20
CCS R 85

GB

中华人民共和国国家标准

GB/T 42427—2023

交通运输卫星导航增强定位模块测试
技术规范

Testing technical specification of GNSS augmentation positioning module for transportation system

2023-03-17 发布　　2023-07-01 实施

国家市场监督管理总局
国家标准化管理委员会　发布


BD

中国第二代卫星导航系统重大专项标准

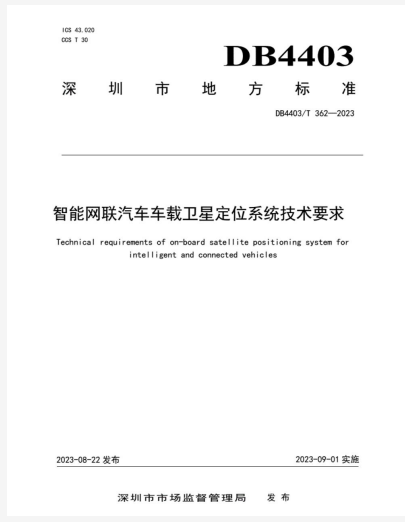
BD 450026-2021

车用外接式亚米级北斗定位模块
通用规范

General specification of the external sub-meter BeiDou positioning module for vehicles

2021-05-25 发布　　2021-06-01 实施

中国卫星导航系统管理办公室　批准


ICS 43.020
CCS T 30

DB4403

深　圳　市　地　方　标　准

DB4403/T 362—2023

智能网联汽车车载卫星定位系统技术要求

Technical requirements of on-board satellite positioning system for intelligent and connected vehicles

2023-08-22 发布　　2023-09-01 实施

深圳市市场监督管理局　发布

Positioning and navigation chips

Positioning and navigation receiver modules

Intelligent connected vehicles /autonomous driving

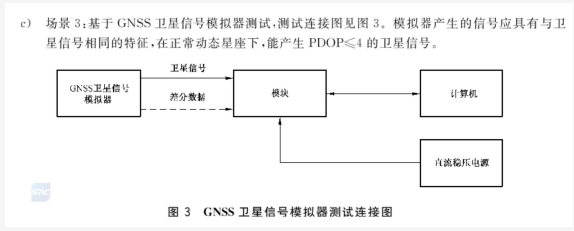

c) 场景 3：基于 GNSS 卫星信号模拟器测试，测试连接图见图 3。模拟器产生的信号应具有与卫星信号相同的特征，在正常动态星座下，能产生 PDOP≤4 的卫星信号。

图 3　GNSS 卫星信号模拟器测试连接图

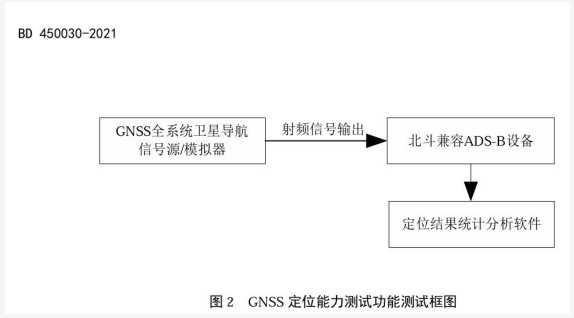
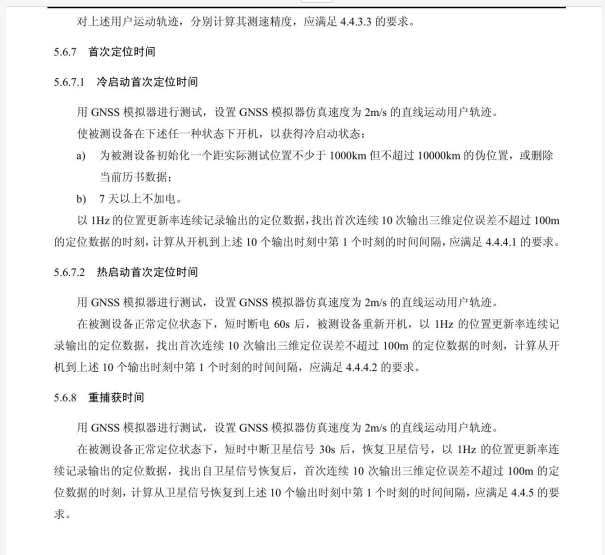

BD 450030-2021

图 2　GNSS 定位能力测试功能测试框图


对上述用户运动轨迹，分别计算其测速精度，应满足 4.4.3.3 的要求。

5.6.7　首次定位时间

5.6.7.1　冷启动首次定位时间

用 GNSS 模拟器进行测试，设置 GNSS 模拟器仿真速度为 2m/s 的直线运动用户轨迹。

使被测设备在下述任一种状态下开机，以获得冷启动状态：

a)　为被测设备初始化一个距实际测试位置不少于 1000km 但不超过 10000km 的伪位置，或删除当前历书数据；

b)　7 天以上不加电。

以 1Hz 的位置更新率连续记录输出的定位数据，找出首次连续 10 次输出三维定位误差不超过 100m 的定位数据的时刻，计算从开机到上述 10 个输出时刻中第 1 个时刻的时间间隔，应满足 4.4.4.1 的要求。

5.6.7.2　热启动首次定位时间

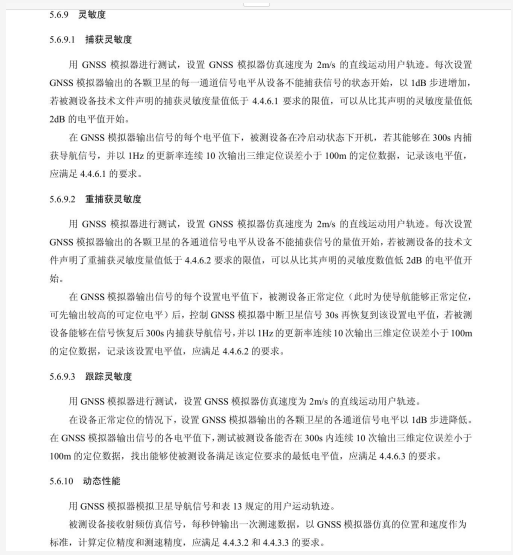
用 GNSS 模拟器进行测试，设置 GNSS 模拟器仿真速度为 2m/s 的直线运动用户轨迹。

在被测设备正常定位状态下，短时断电 60s 后，被测设备重新开机，以 1Hz 的位置更新率连续记录输出的定位数据，找出首次连续 10 次输出三维定位误差不超过 100m 的定位数据的时刻，计算从开机到上述 10 个输出时刻中第 1 个时刻的时间间隔，应满足 4.4.4.2 的要求。

5.6.8　重捕获时间

用 GNSS 模拟器进行测试，设置 GNSS 模拟器仿真速度为 2m/s 的直线运动用户轨迹。

在被测设备正常定位状态下，短时中断卫星信号 30s 后，恢复卫星信号，以 1Hz 的位置更新率连续记录输出的定位数据，找出自卫星信号恢复后，首次连续 10 次输出三维定位误差不超过 100m 的定位数据的时刻，计算从卫星信号恢复到上述 10 个输出时刻中第 1 个时刻的时间间隔，应满足 4.4.5 的要求。


5.6.9　灵敏度

5.6.9.1　捕获灵敏度

用 GNSS 模拟器进行测试，设置 GNSS 模拟器仿真速度为 2m/s 的直线运动用户轨迹。每次设置 GNSS 模拟器输出的各颗卫星的每一通道信号电平从设备不能捕获信号的状态开始，以 1dB 步进增加，若被测设备技术文件声明的捕获灵敏度量值低于 4.4.6.1 要求的限值，可以从比其声明的灵敏度量值低 2dB 的电平值开始。

在 GNSS 模拟器输出信号的每个电平值下，被测设备在冷启动状态下开机，若其能够在 300s 内捕获导航信号，并以 1Hz 的更新率连续 10 次输出三维定位误差小于 100m 的定位数据，记录该电平值，应满足 4.4.6.1 的要求。

5.6.9.2　重捕获灵敏度

用 GNSS 模拟器进行测试，设置 GNSS 模拟器仿真速度为 2m/s 的直线运动用户轨迹。每次设置 GNSS 模拟器输出的各颗卫星的各通道信号电平从设备不能捕获信号的量值开始，若被测设备的技术文件声明了重捕获灵敏度量值低于 4.4.6.2 要求的限值，可以从比其声明的灵敏度数值低 2dB 的电平值开始。

在 GNSS 模拟器输出信号的每个设置电平值下，被测设备正常定位（此时为使导航能够正常定位，可先输出较高的可定位电平）后，控制 GNSS 模拟器中断卫星信号 30s 再恢复到该设置电平值，若被测设备能够在信号恢复后 300s 内捕获导航信号，并以 1Hz 的更新率连续 10 次输出三维定位误差小于 100m 的定位数据，记录该设置电平值，应满足 4.4.6.2 的要求。

5.6.9.3　跟踪灵敏度

用 GNSS 模拟器进行测试，设置 GNSS 模拟器仿真速度为 2m/s 的直线运动用户轨迹。

在设备正常定位的情况下，设置 GNSS 模拟器输出的各颗卫星的各通道信号电平以 1dB 步进降低。在 GNSS 模拟器输出信号的各电平值下，测试被测设备能否在 300s 内连续 10 次输出三维定位误差小于 100m 的定位数据，找出能够使被测设备满足该定位要求的最低电平值，应满足 4.4.6.3 的要求。

5.6.10　动态性能

用 GNSS 模拟器模拟卫星导航信号和表 13 规定的用户运动轨迹。

被测设备接收射频仿真信号，每秒钟输出一次测速数据，以 GNSS 模拟器仿真的位置和速度作为标准，计算定位精度和测速精度，应满足 4.4.3.2 和 4.4.3.3 的要求。

Industry pain points to be solved urgently.

1

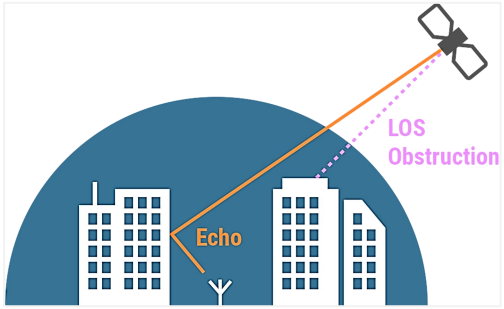
	真实天空信号	信号录制/回放	信号仿真
可重复测试	✗	✓	✓
可控环境条件	✗	部分	✓
可任意时间任意地点	✗	✗	✓
可模拟未来信号与事件	✗	✗	✓
可模拟真实信号	✓	✓	部分

Traditional road test method:
It is difficult to cover the whole scene test,
and has low efficiency and high cost.

2

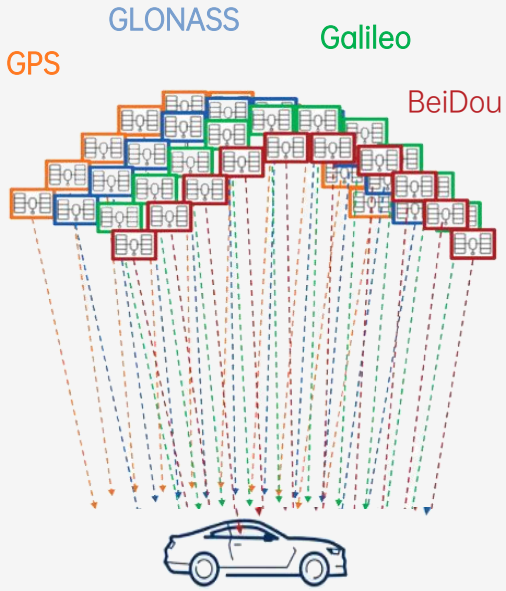
The GNSS simulators in the market are monopolized by 2-3 foreign companies, with high cost, complicated equipment operation and long learning period.

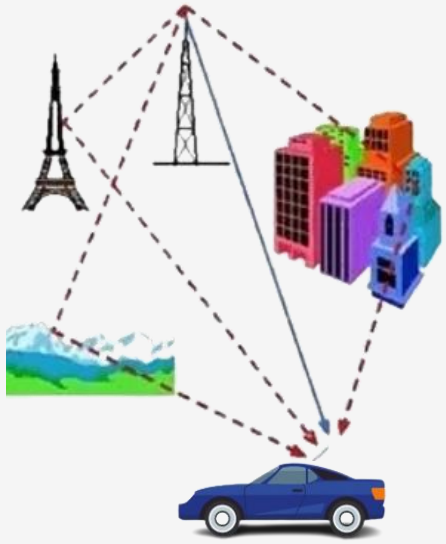
3

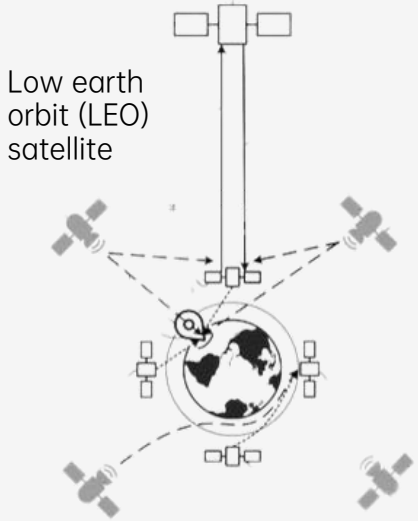


National standard definition test scenario
It is complicated and diverse, and it is difficult to configure the system.
The test case library is blank.

Automatic driving and low-altitude economy stimulate the demand for large-scale positioning navigation test.







Multi-constellation and multi-frequency

Multipath effect

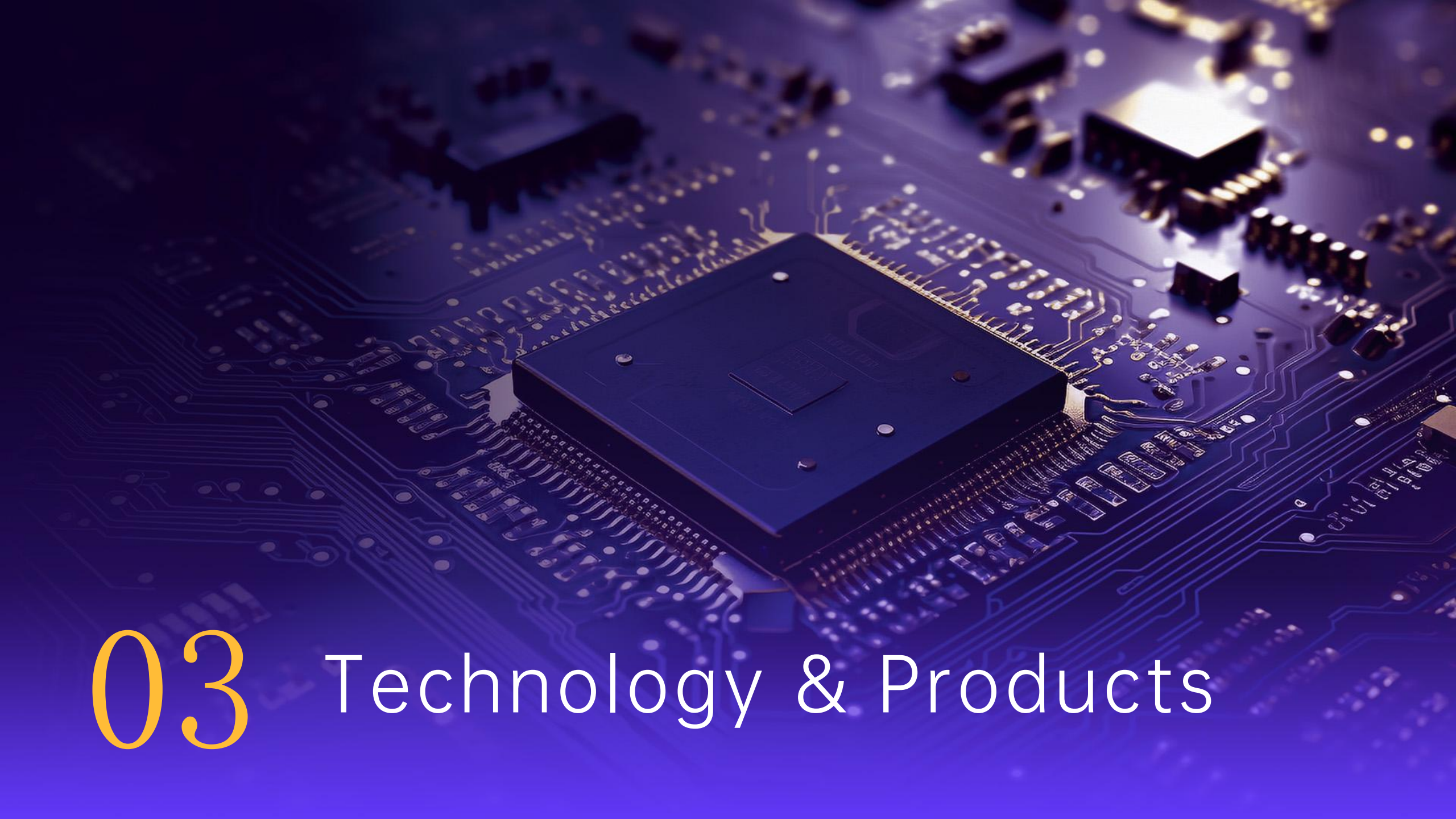
Multiple parts to be tested

New GNSS technology

More channels and more instances are needed to achieve a more realistic simulation!

Trillion-level industry scale stimulation (Currency Unit: RMB)

Industry	Customer Type	Number of Enterprises (China)	Maximum Contract Value per Client	Sales Volume Scale (China)	Global Estimate (Calculation Method: Estimated Customer Base in Target Market × Estimated Maximum Contract Value in Target Market)
Automotive Industry	OEMs (Mainstream Passenger Vehicles + Commercial Vehicles/L4 Level)	200	5 million	1 billion	Japan & South Korea: 600 million (100 companies × 6 million) Europe: 1.05 billion (150 companies × 7 million) United States: 1.5 billion (200 companies × 7 million) Southeast Asia: 150 million (50 companies × 3 million)
	Tier 1/Tier 2 (Domain Controllers/T-Box/ADAS)	220	5 million	1.1 billion	Japan & South Korea: 750 million (150 companies × 5 million) Europe: 900 million (180 companies × 5 million) United States: 1 billion (200 companies × 5 million) Southeast Asia: 150 million (50 companies × 3 million)
	Autonomous Driving/Agricultural Machinery (Universities & Research Institutes)	24	1 million	0.24 billion	JJapan & South Korea: 22.5 million (15 companies × 1.5 million) Europe: 40 million (20 companies × 2 million) United States: 62.5 million (25 companies × 2.5 million) Southeast Asia: 10 million (10 companies × 1 million)
	Integrators	128000	3 million	491.52 billion	Japan & South Korea: 12 billion (30,000 companies × 400,000) Europe: 14 billion (40,000 companies × 350,000) United States: 25 billion (50,000 companies × 500,000) Southeast Asia: 5 billion (20,000 companies × 250,000)
Low-Altitude Economy	Aircraft Manufacturers	69000	2 million	384 billion	Japan & South Korea: 30 billion (10,000 × 3 million) Europe: 37.5 billion (15,000 × 2.5 million) United States: 70 billion (20,000 × 3.5 million) Southeast Asia: 7.5 billion (5,000 × 1.5 million)
	Aerospace Universities/Research Institutes	22	1 million	0.22 billion	Japan & South Korea: 180 million (15 companies × 12 million) Europe: 300 million (20 companies × 15 million) United States: 500 million (25 companies × 20 million) Southeast Asia: 80 million (10 companies × 8 million)
Consumer Electronics	Smart Wearables/Positioning Navigation Device Manufacturers	4500	5 million	22.5 billion	Japan & South Korea: 2.4 billion (800 companies × 3 million) Europe: 4 billion (1,000 companies × 4 million) United States: 6 billion (1,200 companies × 5 million) Southeast Asia: 1.2 billion (600 companies × 2 million)
Positioning & Navigation Chips	Chip Manufacturers	20000	5 million	100 billion	Japan & South Korea: 20 billion (5,000 companies × 4 million) Europe: 27 billion (6,000 companies × 4.5 million) United States: 24 billion (4,000 companies × 6 million) Southeast Asia: 6 billion (2,000 companies × 3 million)
Metrology & Testing	Third-Party Metrology & Testing Institutions	54000	10 million	540 billion	Japan & South Korea: 8 billion (10,000 companies × 800,000) Europe: 14.4 billion (12,000 companies × 1.2 million) United States: 22.5 billion (15,000 companies × 1.5 million) Southeast Asia: 3 billion (5,000 companies × 600,000)
				Total: approximately: 5.96 trillion yuan	346.795 billion yuan



03 Technology & Products

Software-defined satellite positioning navigation test system

Data analysis and reporting tools

Test management platform

Automated test scripts and control software

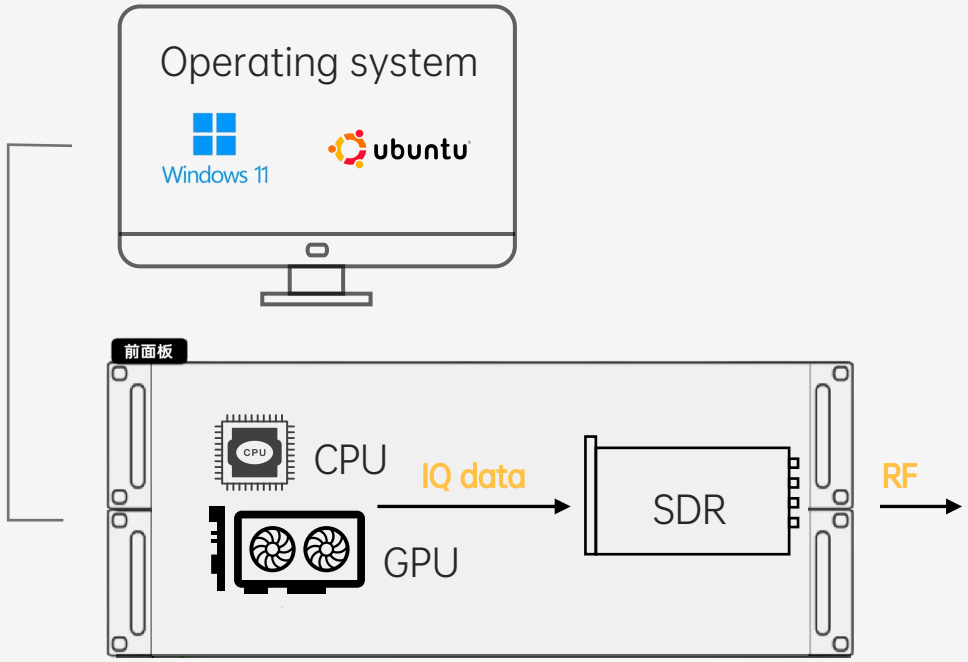
GNSS simulation engine

GPU

Software defined radio (SDR) hardware

Core Technology 1
The industry's first software-defined architecture, using GPU acceleration, software and hardware decoupling.

Software Defined Architecture



NVIDIA GPU's parallel ability is adopted to accelerate the calculation, and 2,000 satellite search channels leading in the industry are obtained.

NVIDIA

Decoupling software and hardware, compatible with many COTS SDR (Software Defined Radio), easy to expand.

While bringing high performance indicators, it provides users with maximum flexibility and openness from the hardware and software aspects.

Core Technology 2

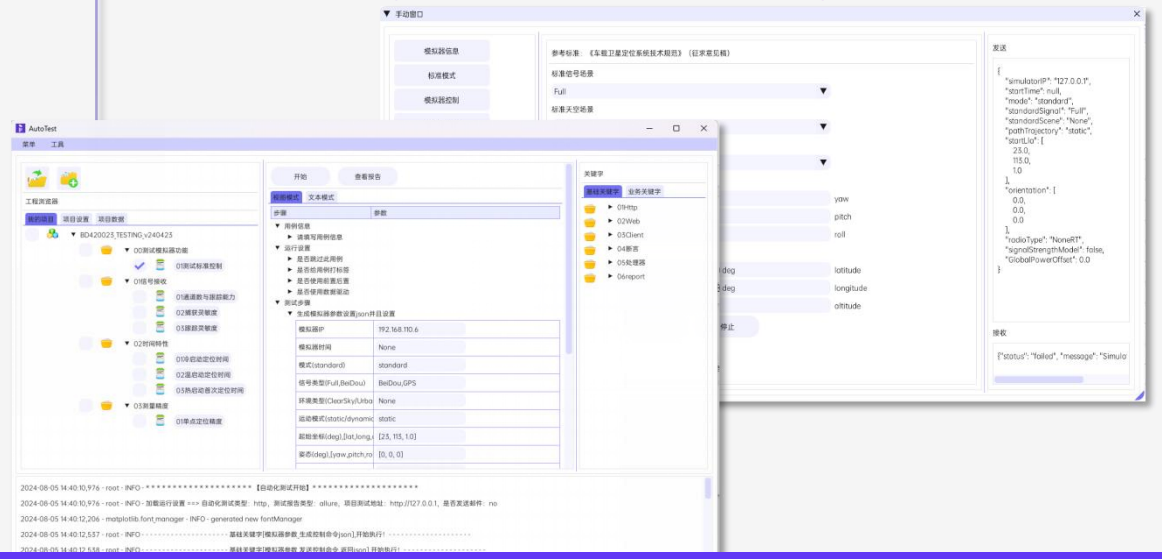
The only scheme that can realize one-button automatic test freely and quickly.

Automated test platform

Provide users with maximum flexibility and openness from the hardware and software levels.

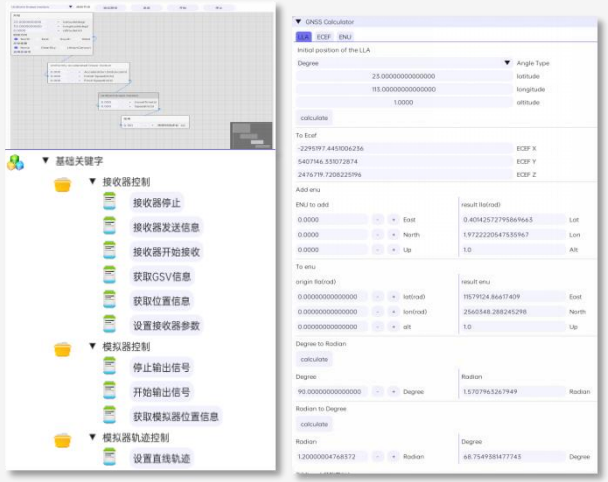
Built-in test procedures and test scenarios corresponding to national standards.

- 5.2 Performance Requirements of Technical Specification for Vehicle Satellite Positioning System (Draft for Comment)
- JJF 1921—2021 Calibration Specification for GNSS Driving Recorder
- BD 420023—2019 General Specification for Beidou/Global Satellite Navigation System (GNSS)RTK Receiver
- BD 420009—2015 General Specification for Beidou/Global Satellite Navigation System (GNSS) Measuring Receiver



Self-developed automated testing and tools to improve testing efficiency.

- Automated one-click test of use cases, without manual tedious operation.
- Manually configure the demand scenario, and customize the scenario as needed.
- Built-in multi-coordinate system fast calculator
- Adapt to various types of equipment to be tested.
- Visual editing and scene configuration, supporting open business.
- Support for new standards and own extensibility



Refer to the following standards:
BD 420023—2019 General Specification for Beidou/Global Satellite Navigation System (GNSS)RTK Receiver
BD 420009—2015 General Specification for Beidou/Global Satellite Navigation System (GNSS) Measuring Receiver

Core Technology 3

The first scheme supporting simultaneous output of up to 32 navigation tracks.
Used for testing fleet management system, aircraft formation, etc.

证书号第7781416号

专利公告信息

发明专利证书

发 明 名 称：基于GNSS模拟器的无人机编队飞行测试方法和装置

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申请日时申请人：广州虹科电子科技有限公司;广州德思特科技有限公司

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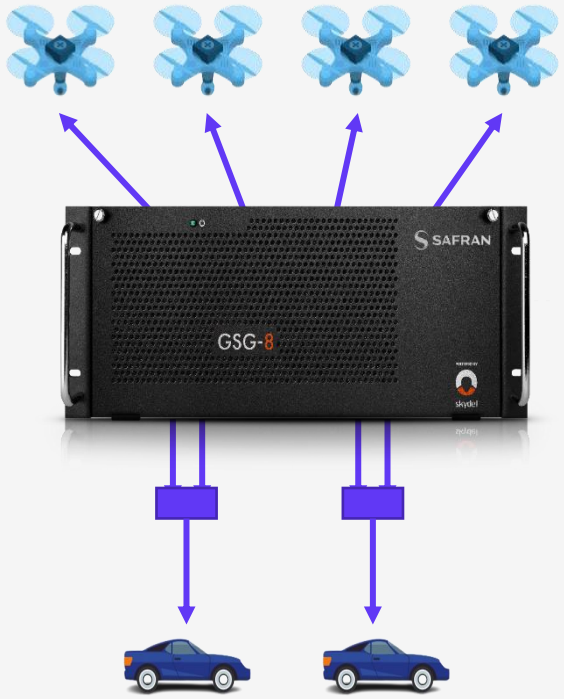


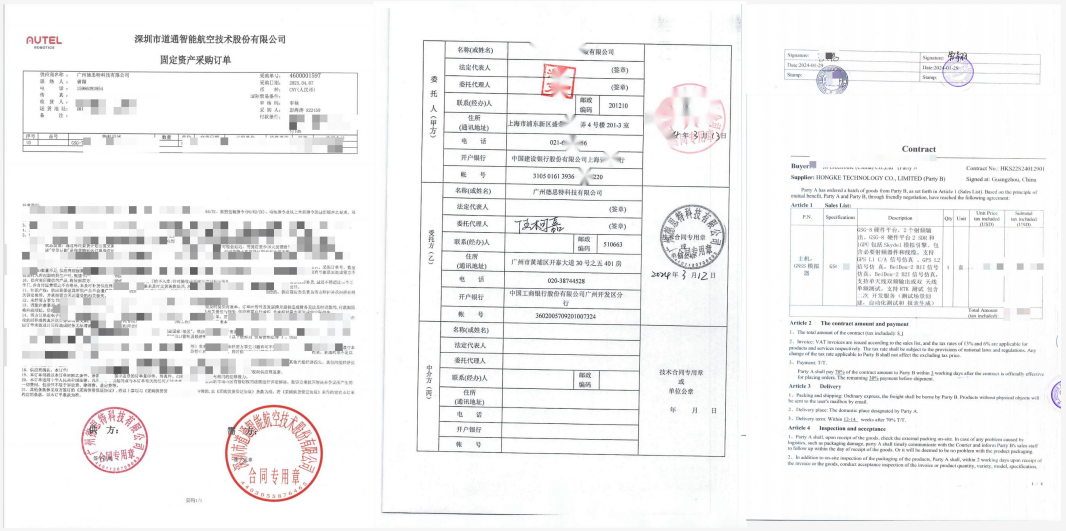
2 cars (dual-frequency)
4 UAVs (single-frequency)

multiple vehicles,
fleets,
multiple UAVs,
UAV clusters.

Customer Cases

Leading low-altitude economy enterprises and metrology testing institutions

AUTEL 道通智能　CNTNRC　CEPREI



Results & Benefits

- 5 times lesser in labor costs, eliminating repeated travel between labs and field sites
- 10 times higher in testing efficiency, complex tests now completable by a single technician in-lab
- Millimeter-level positioning accuracy achieved, enabling high-precision drone localization

Customer Cases

A leading drone company - technology verification completed

Challenges & Pain Points

- **Due to no-fly zone restrictions and weak indoor GNSS signals,** indoor autonomous drone navigation algorithm validation cannot be achieved;
- **Drones require real-time GNSS signal reception** and position feedback to the control terminal for closed-loop control.

Solution

- Provide closed-loop access capability, read LIDAR and IMU data parsing and real-time conversion of data into GNSS signals, which are injected back to the positioning module, with the delay of the whole set of cycles lower than 10ms, ensuring that drone completes the self-positioning correction and realizes the take-off and automatic algorithm verification.

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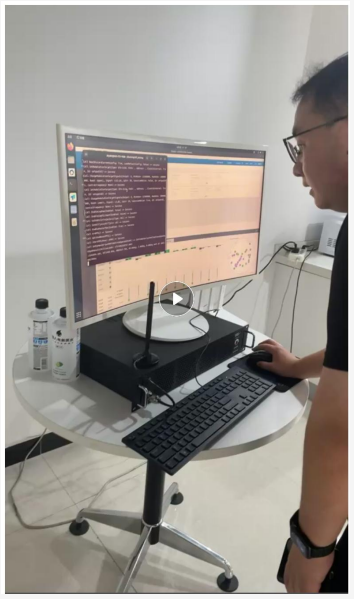
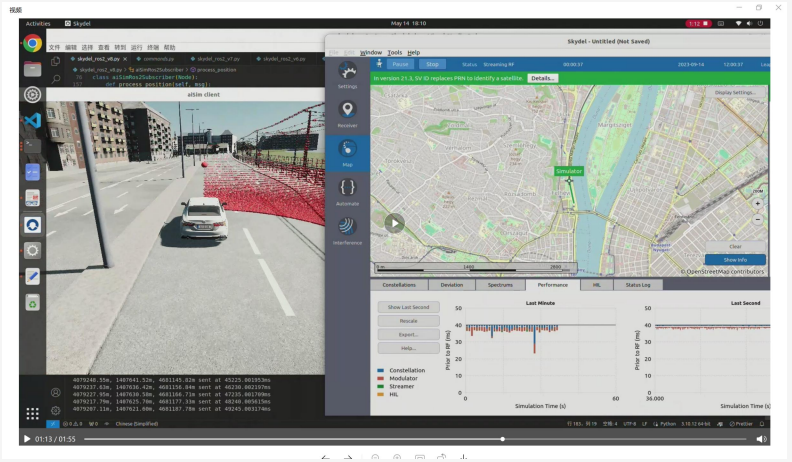


Customer Cases

Connect HiL functions with third-party scenario simulation software aiSim and dSpace - meeting the needs of multiple automotive OEMs

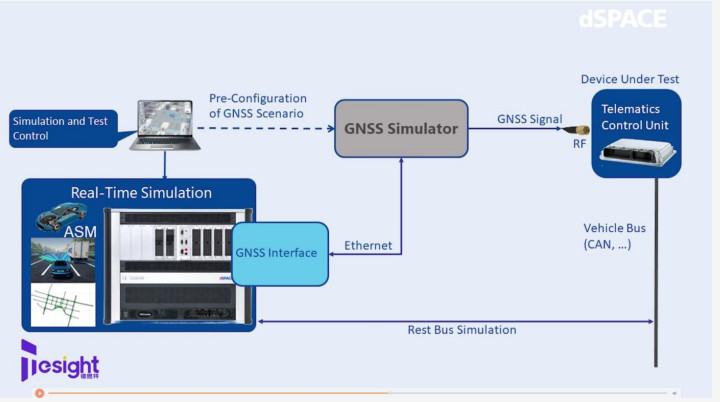


Challenges & Troubles

- ADAS/AD HiL applications require simultaneous simulation of complex vehicle, environment, and traffic models with high-precision real-time synchronization; scenario-based testing compliant with ISO 26262 and SOTIF standards;
- Difficulty achieving sub-5ms HiL latency; conventional record-playback methods cannot support closed-loop HiL.

Solution

- Integrates GNSS signals (e.g., GPS) into ADAS/AD HiL systems via HiL API.



Results & Benefits

- Achieves HiL simulation latency (≤5ms);
- 10 times higher in test reliability by incorporating multi-sensor models, geolocation, and vehicle posture into closed-loop testing;
- Provides strategic solutions for autonomous driving's "safety-first" challenges.

Competitor Analysis

Industry-leading performance and functionality

	Tesight GNSS automatic test system based on software definition	Previous generation products (proprietary hardware)	Industry head peer A GNSS Simulator (proprietary hardware)	Industry head peer B GNSS Simulator (Vector Network Reform)
Maximum search channel	2000	1-64	1-320	1-602
HIL delay	5ms	130ms	6ms	20ms
Automation	Custom plug-in Open API(Python, C++, C#) Visual automation	SCPI	Open API	SCPI
Multiple instances	32	⚠	⚠	⚠
Abundance of test cases meeting national standards	☺	⚠	☹	⚠
Real-time receiver /DUT feedback	✓	⚠	⚠	⚠

Advantages of Our Products

Leading the performance industry

- ✓ Industry-leading 2000 satellite channels
- ✓ Beyond the traditional 10ms limit, the simulation delay of 5ms HiL is realized.
- ✓ Automated test system-level capability with overall solution delivery

A plan to reduce costs by 60%

- ✓ Compared with millions of peer systems, the cost can be reduced to more than 60%.
- ✓ The system is flexible, highly cost-effective!
- ✓ Provide more cost-effective solutions while maintaining high performance.

Frontier industry insight

- ✓ Domestic substitute leader of GNSS automatic test at the forefront
- ✓ Pioneering the successful application of automated GNSS testing systems for Beidou-only positioning and navigation simulation, closely aligning with national strategy.
- ✓ More than 10 years of experience, with cutting-edge insight into industry needs.

High-quality customer base

- ✓ Establishe long-term cooperation with several well-known enterprises include measurement, automobile and low-altitude economy and formed a stable strategic cooperative relationship.
- ✓ Praised by high-quality customers such as Ceprei and CATARC (China Automomotive Technology and Research Center Co., Ltd).

04 Business Model & Implementation Plan

Business Model

Charging through software upgrade and annual subscription system, adding value and improving core competitiveness through technical services.

30%

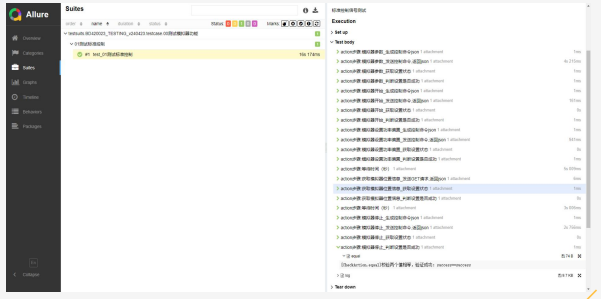
Hardware standard

- Existing hardware
- Develop more hardware in the future

50%

Software platform TS-SkyWalker

- Dester Skywalker Automated Test Platform (Skywalker Automated Test Platform)
- Software base fee+software option fee
- Software option: accommodate different industry test standards and specifications and corresponding test cases.



20%

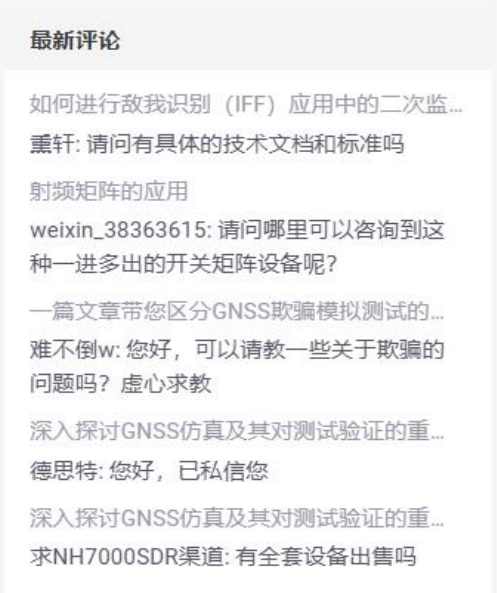
Technical Service

- Including training courses, customized expanded secondary development services and system integration.
- Online training or offline on-site training
- The training content includes general knowledge of the industry (interpretation of industry applications and related standards) and practical training.

As of April 2025, Tesight's order volume exceeded 23 million RMB with sales surpassing 20 million RMB. Hardware standard products accounted for 84.5%, software 12%, and technical services 3.5%.

Market Strategy
—— taking technology communities as an example

Technology Dissemination



Community Accumulation

Cultivation and Transformation

Blog Community: Create a GNSS blog account and maintain operation

Target Customer Group:

Providers of high-precision, high-reliability GNSS simulation and automated testing solutions

Automotive Industry

- Automotive Parts /Tier1 /Tier2
- OEM
- System Integrator

Low-Altitude Economy

- Aerial Vehicle and Other Enterprise Customers
- Aerospace Universities and Research Institutes

Consumer Electronics

- Smart Wearable / Positioning and Navigation Terminal
- Positioning and Navigation Chip /IMU

Measurement and Testing

- Third-Party Measurement and Testing Agency

Flexible and Scalable Automated Testing Platform

Software-Defined Access

GNSS Simulator

Skydel+GPU+SDR

Dektec DTA-2115B

Ettus Research USRP N310 or X300

NI USRP RIO 294xR/295xR

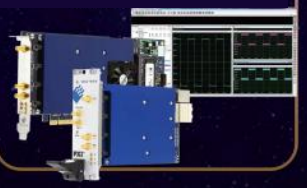
Real-Time Spectrum Analyzer

RTSA/SDR Receiver

Digitizer

PCIe/PXIe Digitizer Modules

LXI Digitizer



AWG

Benchtop Signal Generator

PCIe/PXIe Signal Generator Modules

EMC Testing

RadiMation

EMC Testing Standards + Third-Party Test Equipment

05 Financial Analysis

Development Goal
- increase market share from 10% to more than 50%.

The first stage

- Achieve 20 million sales revenue.
- Layout 15 intellectual property rights.
- Join the SC29, and the Road Vehicles-Vehicle Test Methods for Elecctrical Disturbances from Narrowband Radiated Electromagnetic Energy -Part 5: Reverberation chamber, and increase influence through industry endorsement, and enter more industries.

The second stage

- Realize 40 million income.
- Complete the identification of high-tech enterprises.
- Complete the angel round of financing.
- Bind the head enterprises of 3 important industries, namely, autonomous driving main engine factory, parts manufacturer and low-altitude economy, to create industry benchmark cases and form more radiation in the same industry and upstream and downstream.

The third stage

- Realize 70 million income.
- Complete the identification of the national science and technology giant.
- Develop more national/industry standard use case libraries in different places and product types.

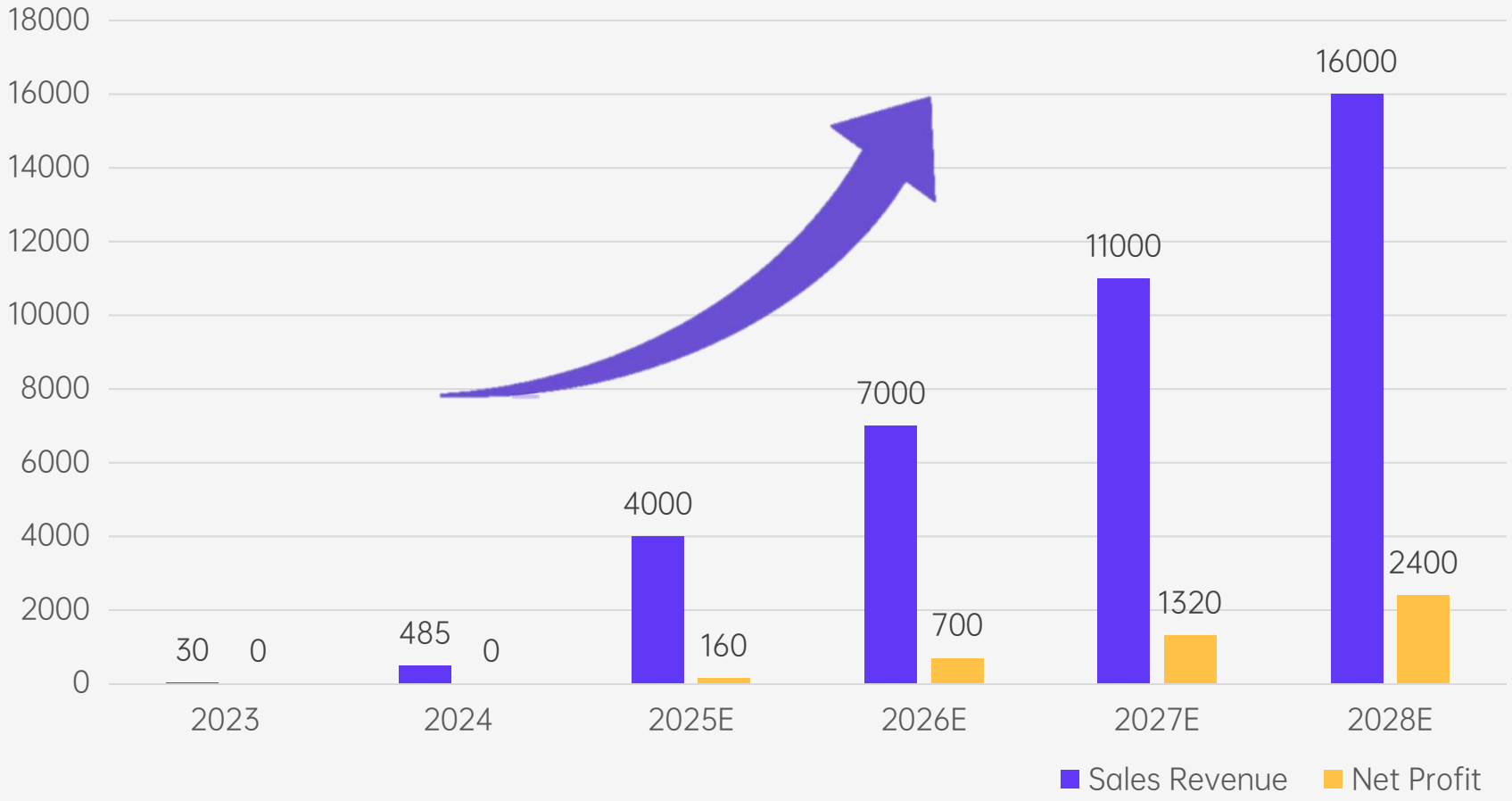
The fourth stage

- Realize 110 million income.
- Complete a round of financing.
- Achieved certification as a Little Giant.
- Expand to humanoid robots and intelligent machines in more space intelligence in the future.
- Establish an automated testing ecosystem.

Financial Forecast:

Break-even expected within 1 year, with profits exceeding 46 million RMB within 5 years.

Unit: 10-thousand (RMB)



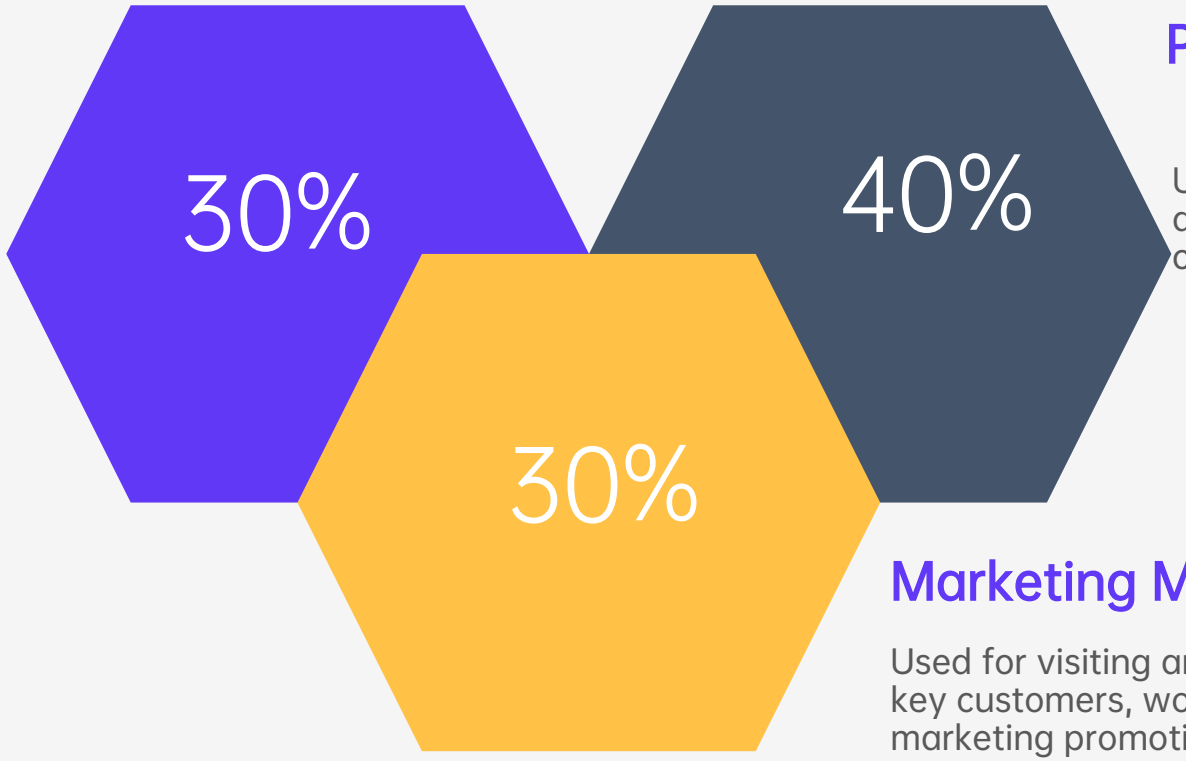
As of August 2024, Tesight has secured orders worth over 18 million RMB and achieved sales exceeding 15 million RMB.

Financing Programs

This financing round has raised a total of **RMB 15 million**, representing a **10% equity dilution**.

Team Formation

The expanded scale is 35 people, focused on R&D personnel.



Product R&D

Used for system and solution development, laboratory construction, etc.

Marketing Management

Used for visiting and maintaining key customers, workshop and other marketing promotion.

Appendix
-Matching Status of Conditions for Tesight's Angel Direct Investment

Category	Conditions	Tesight's Matching Status	Details
Basic Requirements	Annual sales not exceeding RMB 30 million, net profit not exceeding RMB 8 million;	√	2024 revenue: RMB 4.85 million (no profit yet);
	Company headcount not exceeding 200, with technical personnel accounting for over 20% of total employees; annual R&D expenditure must account for at least 10% of sales revenue;	√	Technical personnel: 50% of total employees; R&D expenditure ratio: 37.42%;
	Must be in its first or second round of external institutional financing, or established no more than 3 years at the time of investment decision (for biotech/pharma companies, this can be extended to within 5 years);	√	No external financing yet; registered in June 2023 (1 year and 8 months since establishment);
	Must belong to a strategically emerging industry prioritized for development in our district, engaged in R&D, production, or services of technological products, or in business model innovation;	√	Classified as a strategically emerging industry in Huangpu District—low-altitude economy and next-generation information technology;
Preferred Conditions	Supports tech enterprises established based on outstanding projects from innovation/entrepreneurship competitions;	√	3rd Prize in the 2024 Guangzhou Innovation and Entrepreneurship Competition; JUMPSTARTER TOP100;
	Supports tech startups founded by university students, where the team leader should possess independent intellectual property or an innovative business model (including overseas returnees, current undergraduates/postgraduates, or graduates within 5 years);	√	Legal representative: Chu Xiaoxi, an overseas returnee;
	Other outstanding technology-based enterprises.	√	Domestic alternative leader in automated satellite positioning and navigation testing.

Tesight 德思特

Innovation and insight make Tesight easy.

Guangzhou Tesight Technology Co.,LTD

tesight.com